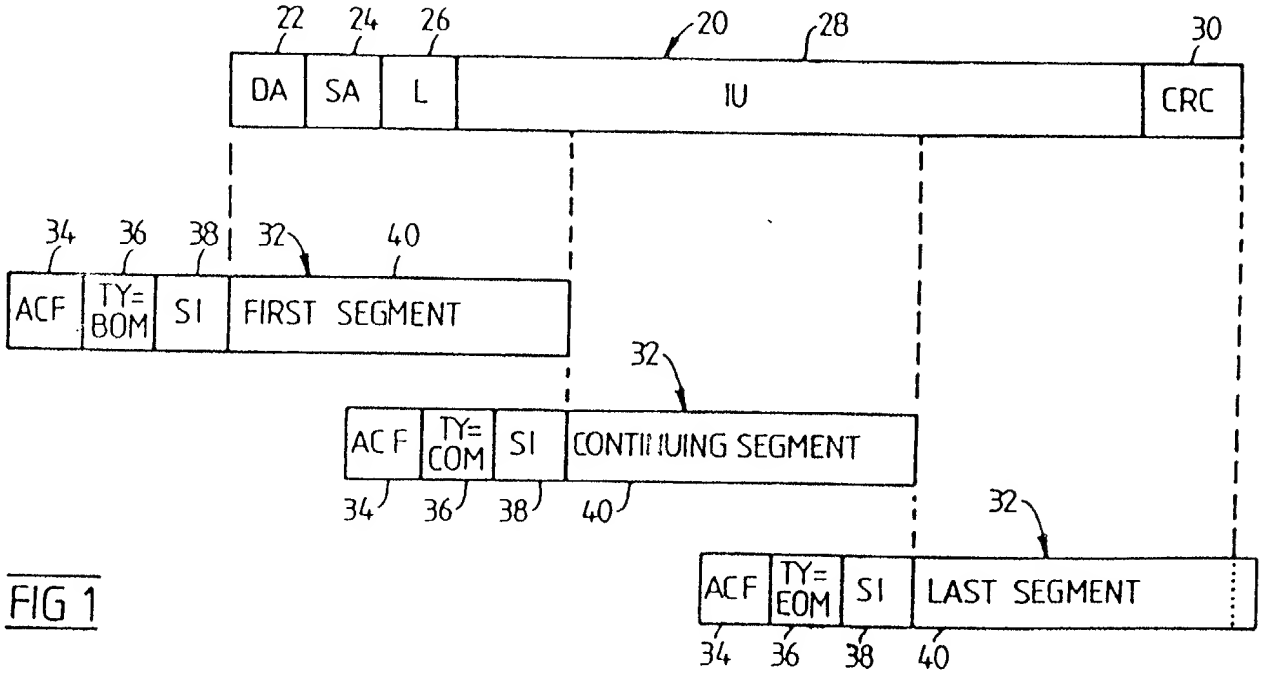


FIG 1

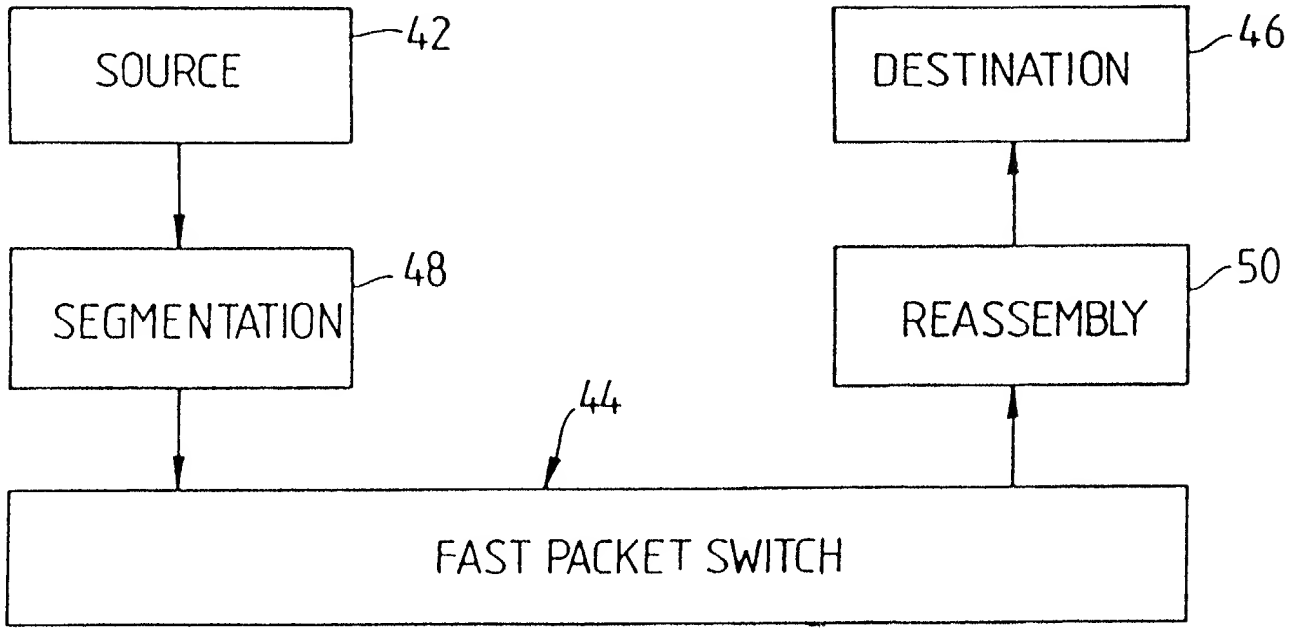

SOURCE
42
DESTINATION
46
SEGMENTATION
48
REASSEMBLY
50
44
FAST PACKET SWITCH

FIG 2

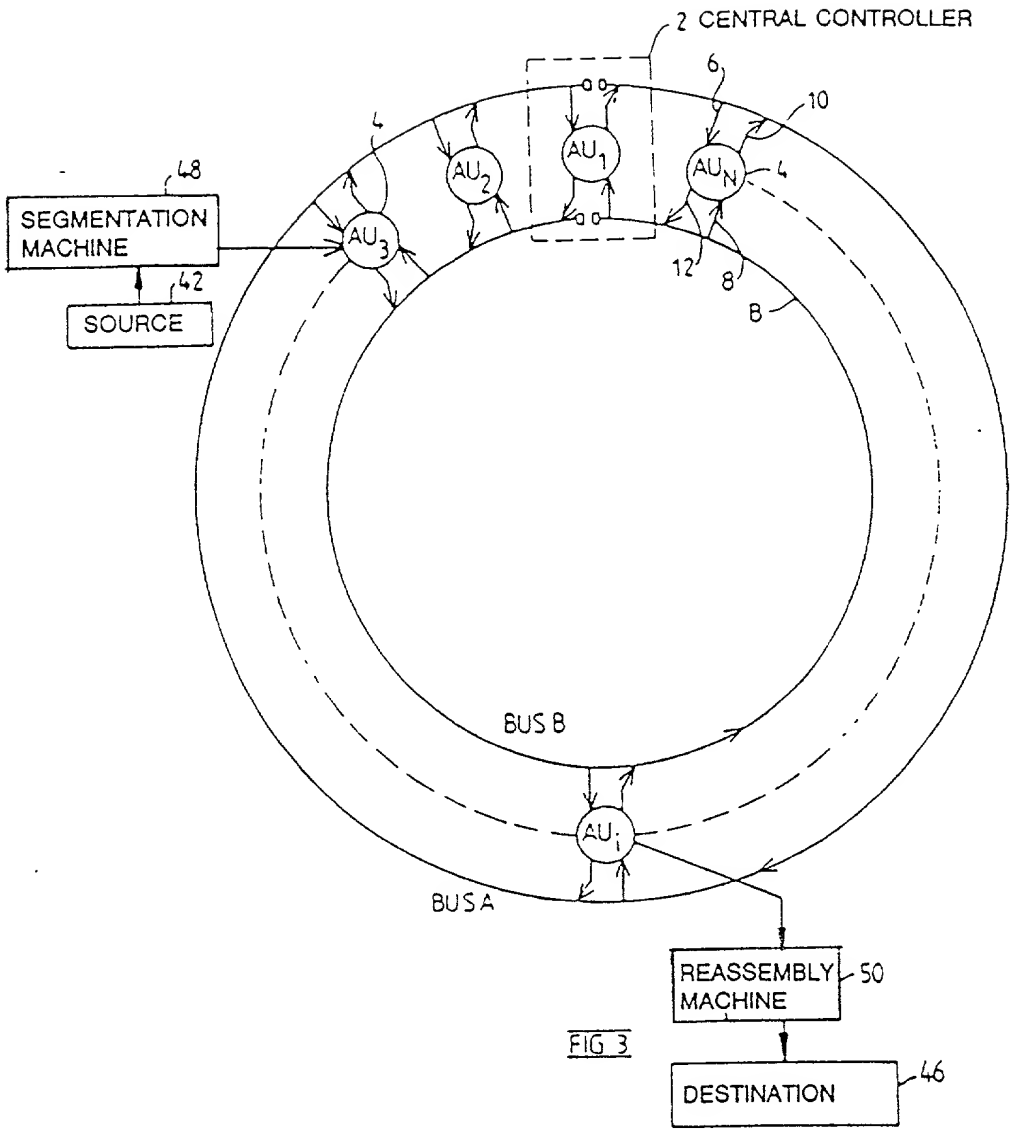

2 CENTRAL CONTROLLER
6
10
4
48
SEGMENTATION MACHINE
42
SOURCE
AU1
AU2
AU3
AUN
12
8
B
BUS B
AUi
BUS A
REASSEMBLY MACHINE
50
DESTINATION
46

FIG 3

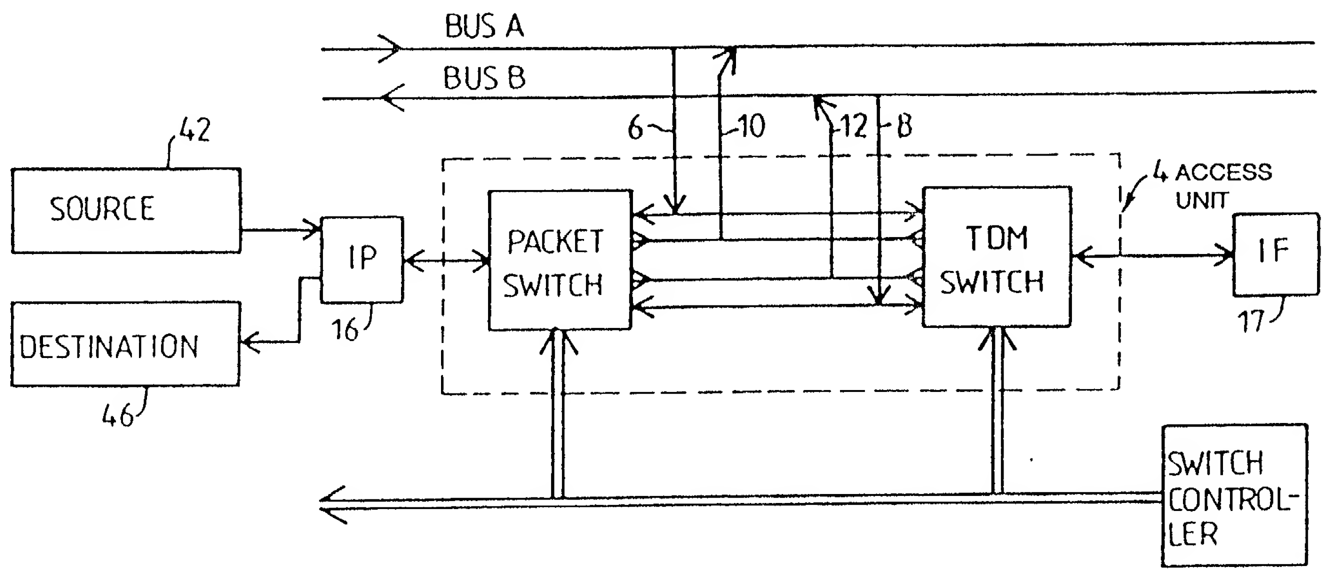

BUS A
BUS B
42
SOURCE
DESTINATION
46
IP
16
6
10
12
8
4 ACCESS UNIT
PACKET SWITCH
TDM SWITCH
IF
17
SWITCH CONTROL-LER

FIG 4

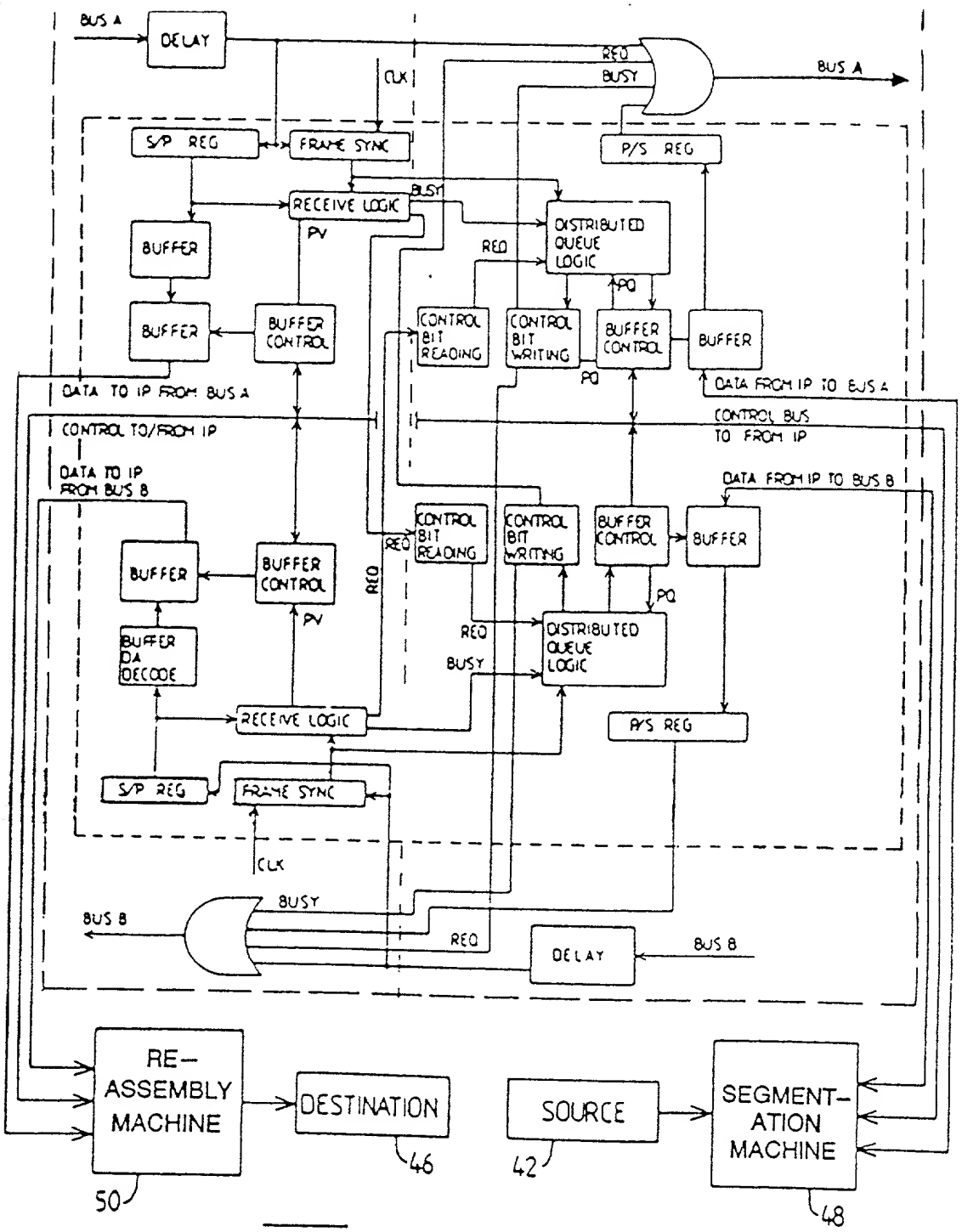

BUS A
DELAY
CLK
REQ
BUSY
BUS A
S/P REG
FRAME SYNC
P/S REG
RECEIVE LOGIC
BUSY
DISTRIBUTED QUEUE LOGIC
REQ
PV
PQ
BUFFER
BUFFER
BUFFER CONTROL
CONTROL BIT READING
CONTROL BIT WRITING
BUFFER CONTROL
BUFFER
DATA TO IP FROM BUS A
DATA FROM IP TO BUS A
CONTROL TO/FROM IP
CONTROL BUS TO FROM IP
DATA TO IP FROM BUS B
DATA FROM IP TO BUS B
CONTROL BIT READING
CONTROL BIT WRITING
BUFFER CONTROL
BUFFER
BUFFER
BUFFER CONTROL
BUFFER DA DECODE
REQ
PV
REQ
BUSY
DISTRIBUTED QUEUE LOGIC
PQ
RECEIVE LOGIC
P/S REG
S/P REG
FRAME SYNC
CLK
BUS B
BUSY
REQ
DELAY
BUS B
RE-ASSEMBLY MACHINE
50
DESTINATION
46
SOURCE
42
SEGMENT-ATION MACHINE
48

FIG 5

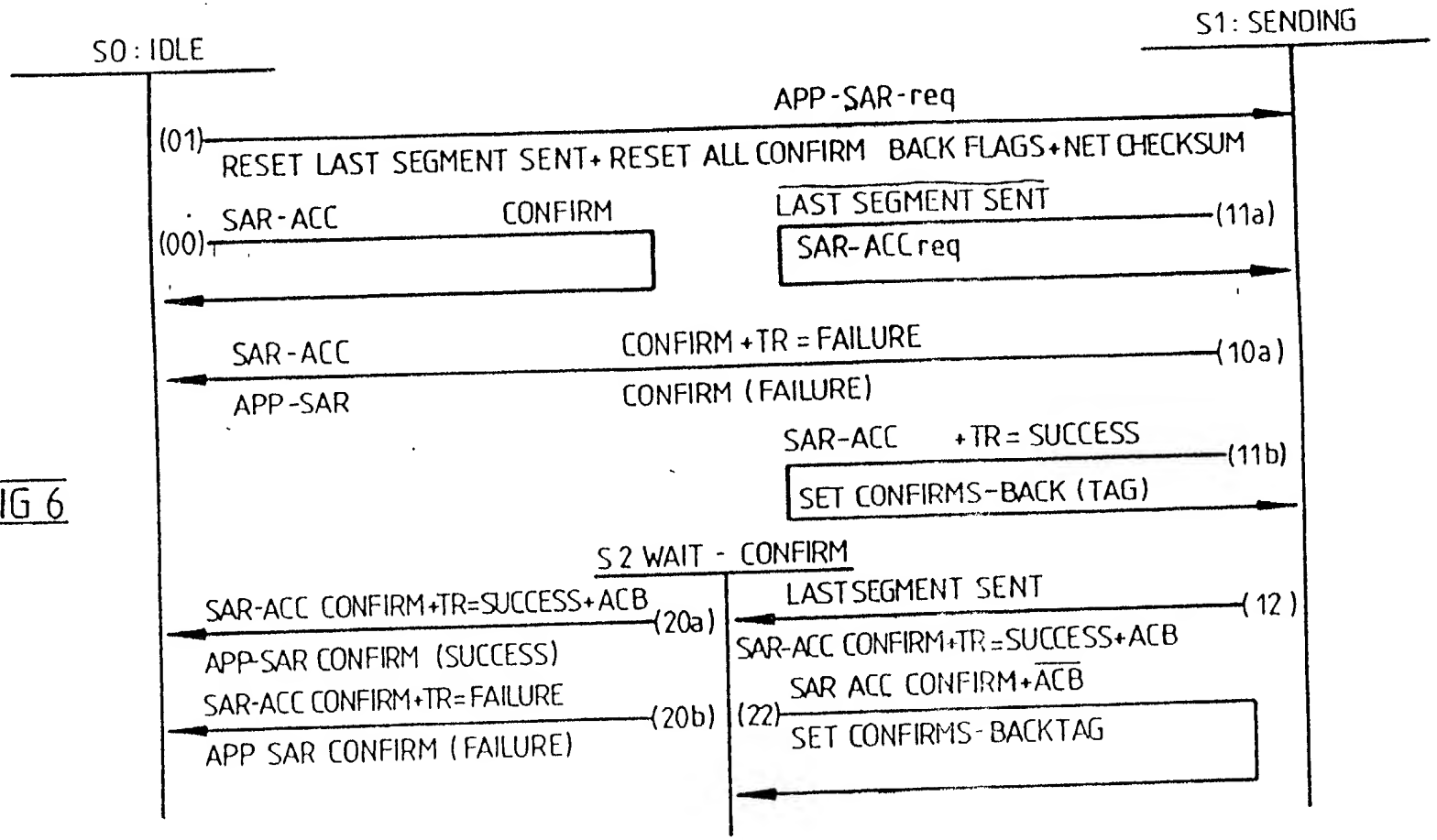
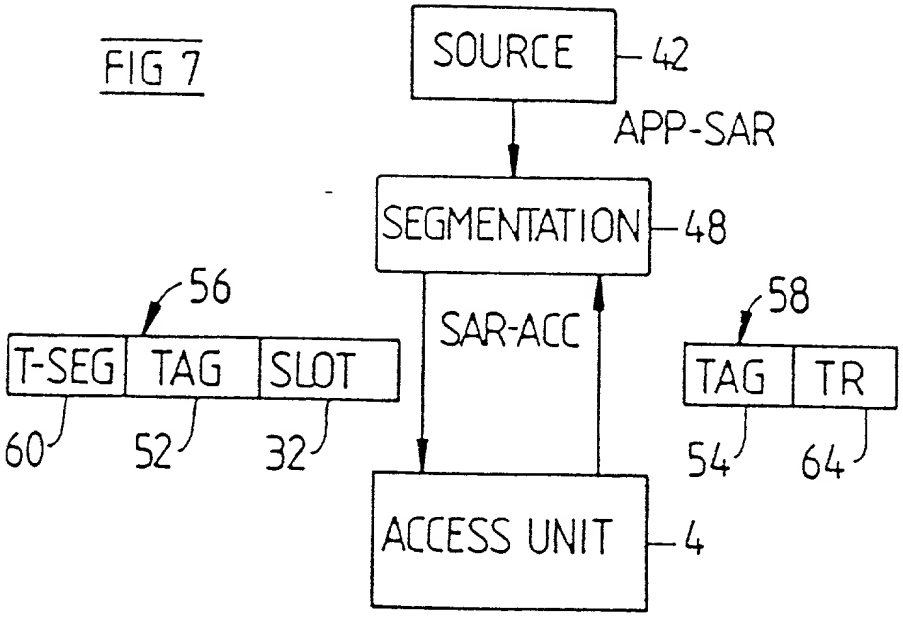


FIG 6

FIG 7


SOURCE
42
APP-SAR
SEGMENTATION
48
56
58
SAR-ACC
T-SEG
TAG
SLOT
TAG
TR
60
52
32
54
64
ACCESS UNIT
4

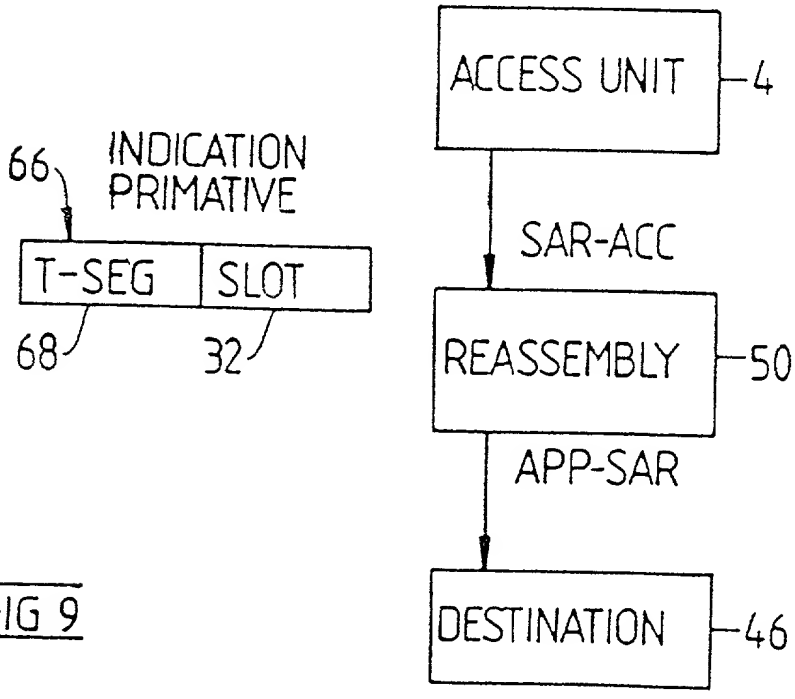

ACCESS UNIT
4
66
INDICATION
PRIMATIVE
SAR-ACC
T-SEG
SLOT
REASSEMBLY
50
68
32
APP-SAR
DESTINATION
46

FIG 9

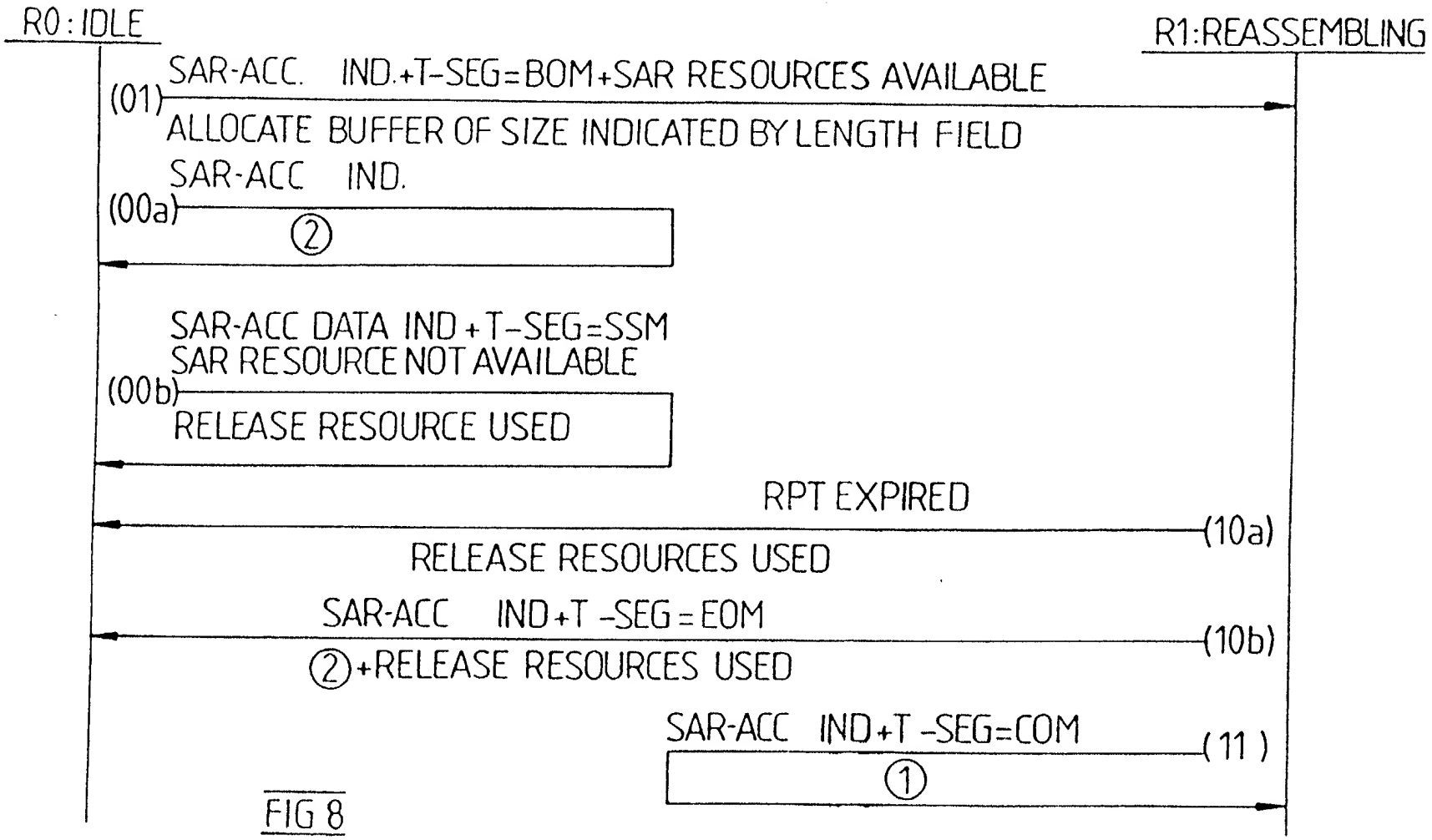

R0 : IDLE
R1:REASSEMBLING
SAR-ACC. IND.+T-SEG=BOM+SAR RESOURCES AVAILABLE
(01)
ALLOCATE BUFFER OF SIZE INDICATED BY LENGTH FIELD
SAR-ACC IND.
(00a)
②
SAR-ACC DATA IND + T-SEG=SSM
SAR RESOURCE NOT AVAILABLE
(00b)
RELEASE RESOURCE USED
RPT EXPIRED
(10a)
RELEASE RESOURCES USED
SAR-ACC IND+T -SEG = EOM
(10b)
②+RELEASE RESOURCES USED
SAR-ACC IND+T -SEG=COM
(11)
①

FIG 8

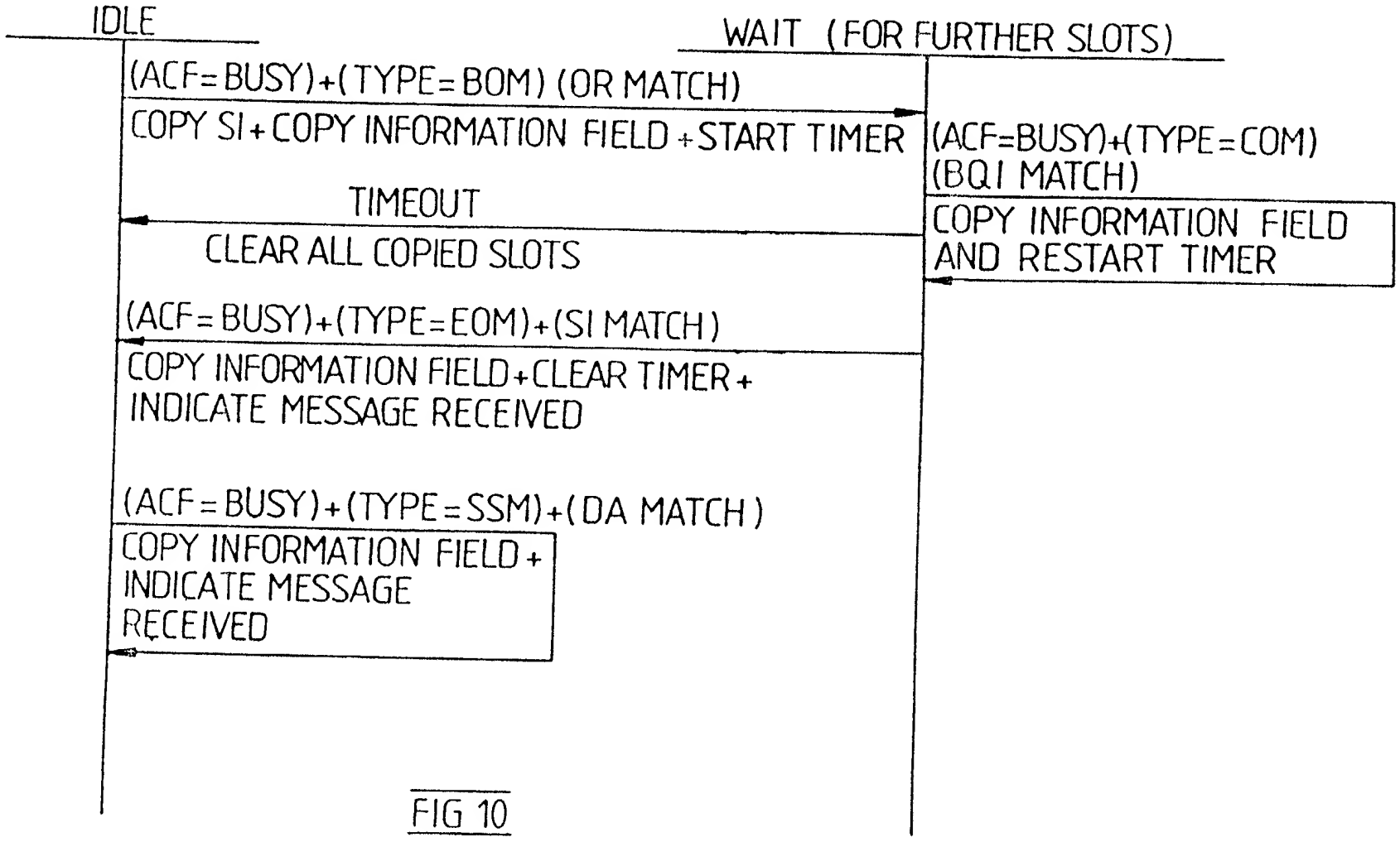

IDLE
WAIT (FOR FURTHER SLOTS)
(ACF=BUSY)+(TYPE=BOM) (OR MATCH)
COPY SI+COPY INFORMATION FIELD+START TIMER
(ACF=BUSY)+(TYPE=COM)
(BQI MATCH)
TIMEOUT
COPY INFORMATION FIELD
AND RESTART TIMER
CLEAR ALL COPIED SLOTS
(ACF=BUSY)+(TYPE=EOM)+(SI MATCH)
COPY INFORMATION FIELD+CLEAR TIMER+
INDICATE MESSAGE RECEIVED
(ACF=BUSY)+(TYPE=SSM)+(DA MATCH)
COPY INFORMATION FIELD+
INDICATE MESSAGE
RECEIVED

FIG 10

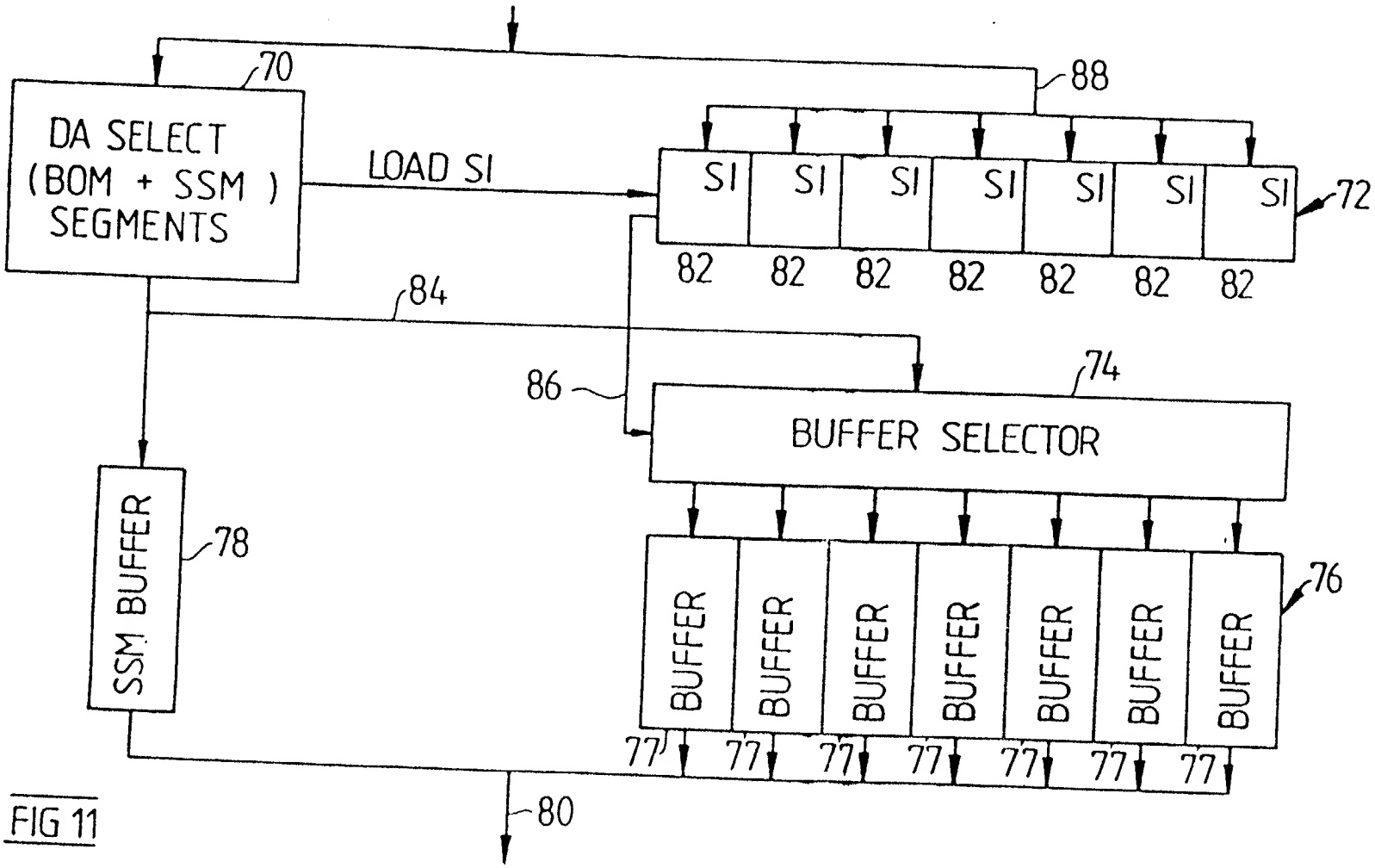


FIG 11

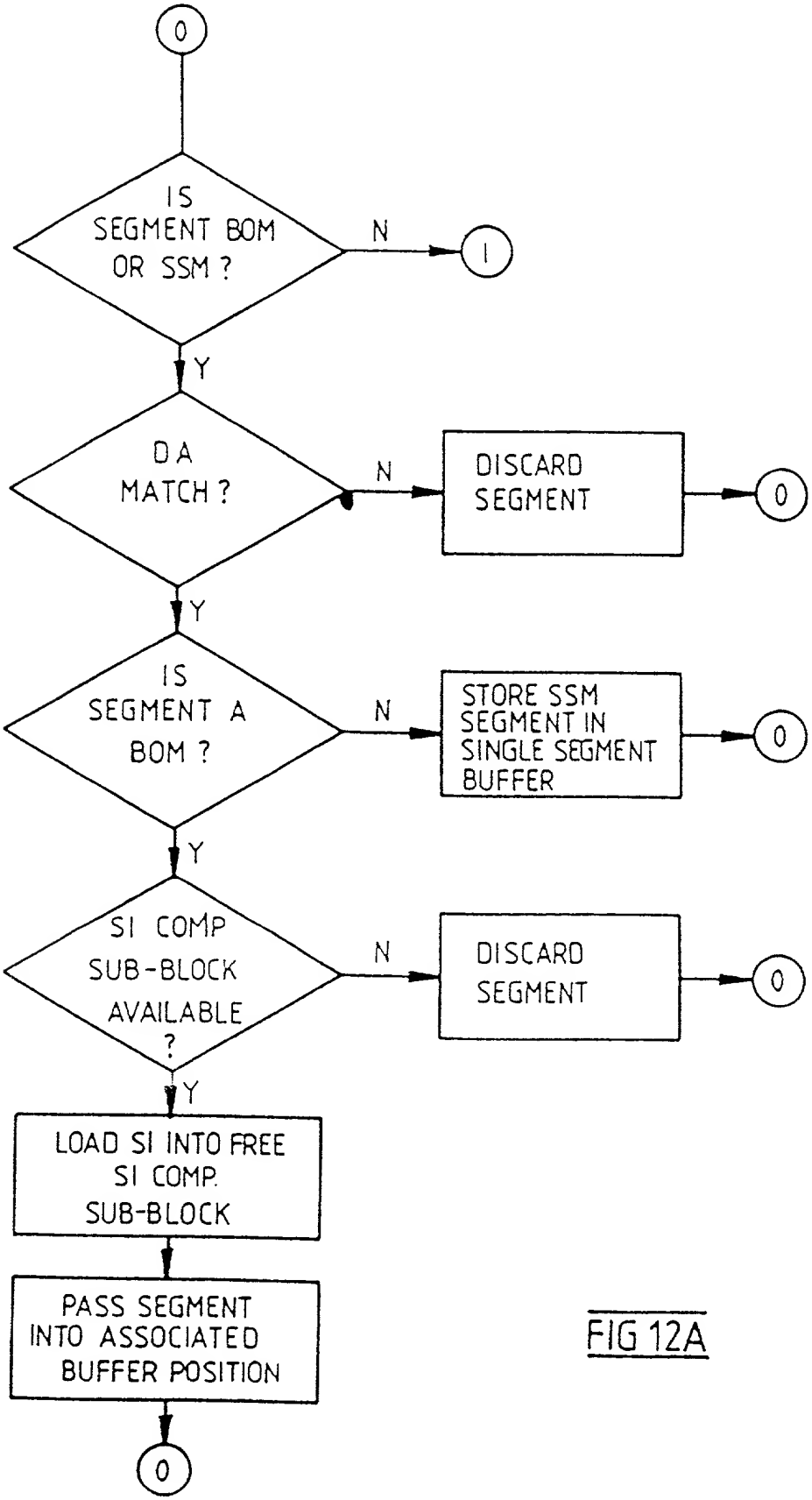


FIG 12A

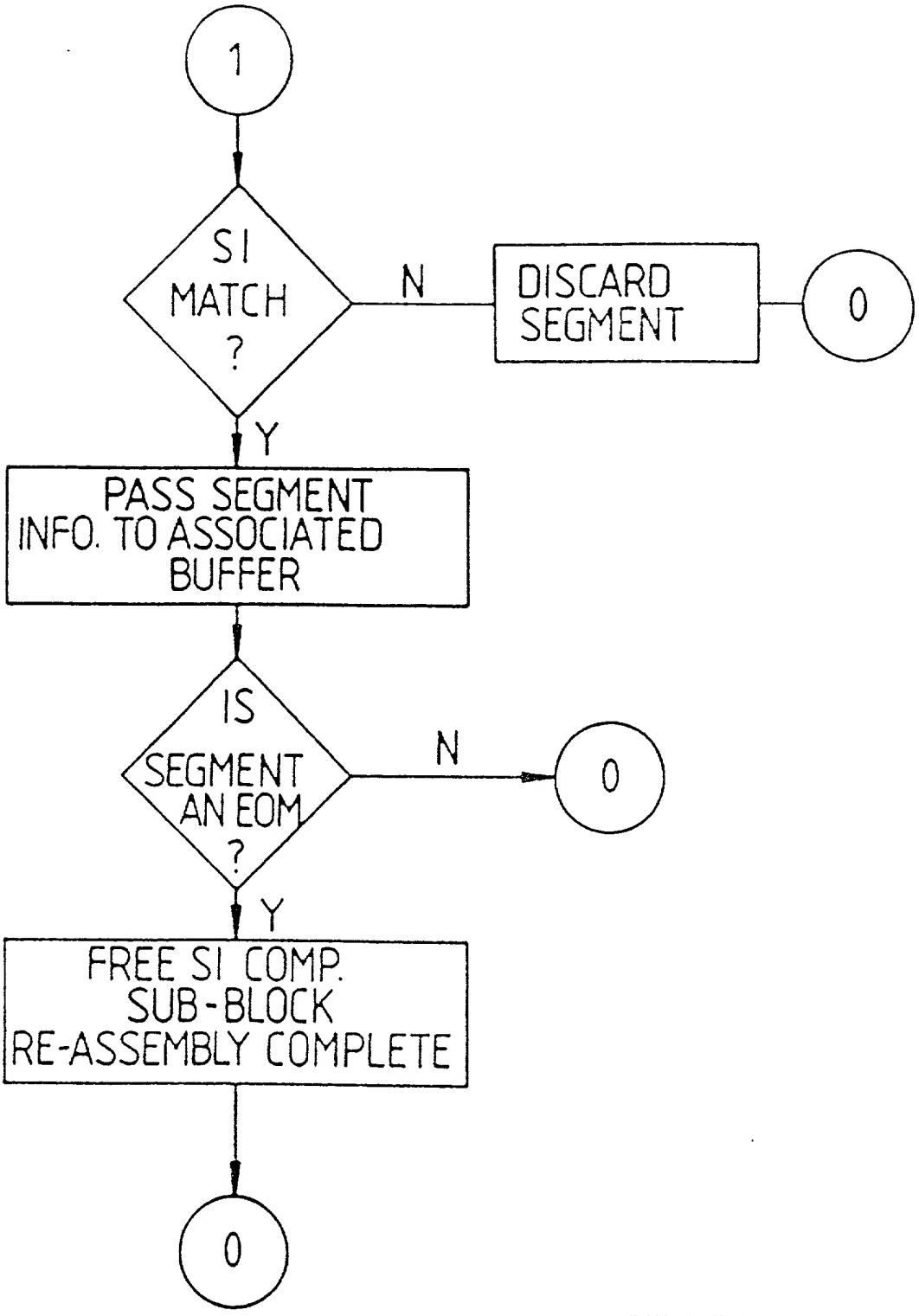


FIG 12B